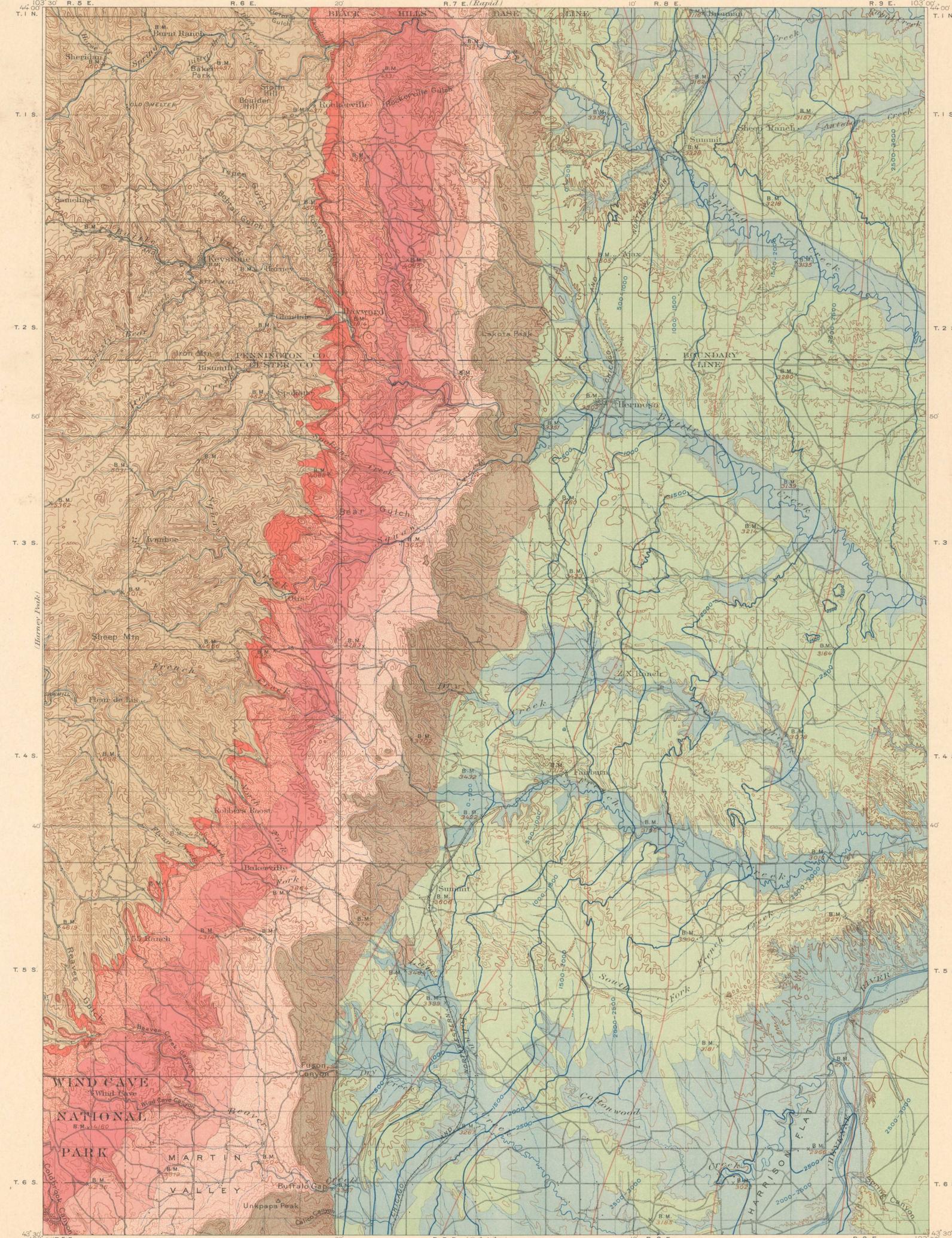


ARTESIAN WATER

SOUTH DAKOTA
HERMOSA QUADRANGLE



EXPLANATION

Area of Dakota sandstone that will probably yield flowing wells (Flowing water may be expected from 25 to 50 feet below the top of the formation.)

Area of Dakota sandstone that will probably yield pumping wells

1000 1500
Depth to top of Dakota sandstone

Contour lines showing local or approximate altitudes above sea level to which artesian water in Dakota sandstone may rise

Outcrop of Dakota and associated underlying sandstones (Areas in which surface waters water-bearing strata part covered by Tertiary and Quaternary deposits)

| | |
|-----------|-----------|
| Outcrop | |
| 0-350 | Outcrop |
| 350-800 | 0-500 |
| 800-1300 | 500-1200 |
| 1300-2000 | 1200-1500 |
| 2000-2400 | |

Outcrop of and depths to Deadwood, Minutona sandstone sandstone
Flowing water may probably be obtained in valleys from the Minutona sandstone or the underlying Deadwood sandstone at depths indicated. The formation also underlies region to the east as probably increasing depths. The artesian water enters the respective formation in these areas of outcrop which are in part covered by Tertiary and Quaternary deposits.

Area not underlain by water-bearing formations

30 R. 5 E.
E. M. Douglas, Geographer in charge.
Triangulation by E. M. Douglas.
Topography by A. F. Dunnington.
Surveyed in 1898-99.



Scale 1:25,000
1 1/2 0 1 2 3 4 5 Miles
1 1/2 0 1 2 3 4 5 Kilometers

Contour interval 100 feet.
Datum is mean sea level.
Edition of Nov. 1922.

DIAGRAM OF TOWNSHIP

| | | | | | |
|----|----|----|----|----|----|
| 16 | 5 | 4 | 3 | 2 | 1 |
| 7 | 6 | 5 | 4 | 3 | 2 |
| 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | 8 | 7 | 6 | 5 | 4 |
| 10 | 9 | 8 | 7 | 6 | 5 |
| 11 | 10 | 9 | 8 | 7 | 6 |
| 12 | 11 | 10 | 9 | 8 | 7 |
| 13 | 12 | 11 | 10 | 9 | 8 |
| 14 | 13 | 12 | 11 | 10 | 9 |
| 15 | 14 | 13 | 12 | 11 | 10 |
| 16 | 15 | 14 | 13 | 12 | 11 |

Hydrology by N. H. Darton.
Surveyed in 1900-1915.